



Air Quality
TIER I OPERATING PERMIT
State of Idaho
Department of Environmental Quality

PERMIT No.: T1-2007.0041
FACILITY ID No.: 039-00001
AQCR: 63 **CLASS:** A
SIC: 9711 **ZONE:** 11
UTM COORDINATE (km): 592.5, 4667.0

1. PERMITTEE

The United States Air Force, Mountain Home Air Force Base

2. PROJECT

Tier I Operating Permit Renewal

3. MAILING ADDRESS

366 Gunfighter Ave., Suite 331

CITY

Mountain Home Air Force Base

STATE

ID

ZIP

83648-5442

4. FACILITY CONTACT

Bryan Trimberger

TITLE

Air Quality Manager

TELEPHONE

(208) 828-3724

5. RESPONSIBLE OFFICIAL

Wing Commander

TITLE

Wing Commander

TELEPHONE

(208) 828-3724

6. EXACT PLANT LOCATION

Eight miles southwest of Mountain Home, Idaho, off State Route 67

COUNTY

Elmore

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

National defense

8. PERMIT AUTHORITY

This Tier I operating permit is issued pursuant to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.300 through 386. The permittee shall comply with the terms and conditions of this permit.

This permit incorporates all applicable terms and conditions of prior air quality permits issued by the Idaho Department of Environmental Quality (DEQ) for the permitted source, unless the permittee emits toxic pollutants subject to state-only requirements pursuant to IDAPA 58.01.01.210, and the permittee elects not to incorporate those terms and conditions into this operating permit.

The effective date of this permit is the date of signature by DEQ on the cover page.

SHAWNEE CHEN, P.E., PERMIT WRITER

DEPARTMENT OF ENVIRONMENTAL QUALITY

MIKE SIMON, STATIONARY SOURCE PROGRAM MANAGER

DEPARTMENT OF ENVIRONMENTAL QUALITY

DATE ISSUED:

Draft for Public Comment

DATE MODIFIED/AMENDED:

DATE EXPIRES:

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Acronyms, Units, and Chemical Nomenclature

AGE	aerospace ground equipment
AQCR	Air Quality Control Region
AST	above ground storage tanks
ASTM	American Society for Testing and Materials
CAA	Clean Air Act
CFR	Code of Federal Regulations
CI	compression ignition
CO	carbon monoxide
COMS	continuous opacity monitoring system
Cr ⁺⁶	hexavalent chromium
DEQ	Department of Environmental Quality
g/kW-hr	gram per kilowatt per hour
gal/day	gallons per 24-hour
gr/dscf	grains per dry standard cubic foot
EPA	U.S. Environmental Protection Agency
HDI	hexamethylene diisocyanate
ICE	internal combustion engines
hp	horsepower
hr/yr	hours per any consecutive 12-month period
HVLP	high-volume, low-pressure
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
kW	kilowatt
lb/gal	pounds per gallon
lb/hr	pound per hour
lb/yr	pound per year
LM	locomotive and marine
LPB-1330	large paint booth - Hanger 1330 or the aircraft painting booth
MMBtu/hr	million British thermal units per hour
MHAFB	The United States Air Force, Mountain Home Air Force Base
NESHAP	Nation Emission Standards for Hazardous Air Pollutants
NMHC	non-methane-hydrocarbons
NO _x	nitrogen oxides
NR	non-road
NSPS	New Source Performance Standards
O&M	operations and maintenance
PM	particulate matter
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PTC	permit to construct
PW	process weight
SIC	Standard Industrial Classification
SO ₂	sulfur dioxide

SPB-1330	small paint booth - Hanger 1330 or the aircraft parts painting booth
Tier I	Tier I operating permit
T/yr	tons per any consecutive 12-month period
UTM	Universal Transverse Mercator
VOC	volatile organic compound
wt%	percent by weight

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1. TIER I OPERATING PERMIT SCOPE

Purpose

- 1.1 This Tier I operating permit (Tier I) establishes facility-wide requirements in accordance with the Idaho State Implementation Plan control strategy and the Rules.

This is a Tier I renewal.

- 1.2 This Tier I incorporates the following permits:

- Permit to Construct (PTC) No. P-060068, issued May 24, 2007
- PTC No. P-060048, issued May 14, 2007

- 1.3 This Tier I supersedes the following permit:

- Tier I No. T1-060047, issued October 13, 2006

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Regulated Sources

1.4 Table 1.1 lists all sources of emissions regulated in this Tier I.

Table 1.1 REGULATED SOURCES

Permit Section	Source Description	Emissions Control(s)
2	Emissions units in sections 3 through 13 unless otherwise stated in the permit	Varies
3	Hospital boilers, one Hurst boiler with Model No. C1-G0-12, and heat input capacity of 1.05 MMBtu/hr; three Kewanee boilers with Model Nos. LSW-125-GO, and heat input capacity of 5.231 MMBtu/hr, each.	None
4	Jet Engine Testing – Hush House I, Building 1344, and Hush House II, Building 270	None
5	Aircraft and aircraft parts surface coating spray booths – Building 1330	Spray booth filters
6	Flight line area spray painting	None
7	Vehicle spray paint booth – Building 1100	Spray booth filters
8	Bead-blasting unit – Building 1330	Dust collector
9	Four Barrier Flight Line Generators with 65.9 horsepower, each	None
10	Three Emergency Generators with Model No. SR4 (each), and power output of 750 kW, each	None
11	Miscellaneous sources	Varies
12	<p><u>Stationary emergency diesel generators subject to 40 CFR 60 Subpart IIII</u></p> <p>(1) Rapcon facility Manufacturer: Cummins Model No: DQDAA-5781700 SN: A070016440 Constructed: March 14, 2007 Power Rating: 250 kW Displacement: 8.9 L</p> <p>(2) Power Pro – Lighting Vault Manufacturer: Cummins Model No: DSHAC-5864313 SN: F070068452 Constructed: June 14, 2007 Power Rating: 200 kW Displacement: 8.9 L</p>	None
13	Insignificant activities	Varies

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2. FACILITY-WIDE CONDITIONS

The following table contains a summary of requirements that apply generally to emissions units at the facility.

Table 2.1 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit/ Standard Summary	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
2.1	Fugitive emissions	Reasonable control	IDAPA 58.01.01.650-651	2.2, 2.3, 2.4, 2.11
2.5	Odors	Reasonable control	IDAPA 58.01.01.775-776	2.6, 2.11
2.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	2.8, 2.11
2.9	Excess emissions	Notification and mitigation	IDAPA 58.01.01.130-136	2.9-2.9.5, 2.11
2.13	Fuel-burning equipment	Natural gas: 0.015 gr/dscf at 3% oxygen Liquid: 0.05 gr/dscf at 3% oxygen	IDAPA 58.01.01.676-677	2.11
2.14	Fuel oil sulfur content	ASTM Grade 1 fuel oil – 0.3% by weight ASTM Grade 2 fuel oil – 0.5% by weight	IDAPA 58.01.01.728	2.14.1, 2.14.2, 2.11
2.15	Open burning	Compliance with IDAPA 58.01.01.600-616	IDAPA 58.01.01.600-616	2.11, 2.15
2.16	Asbestos NESHAP	Compliance with applicable portions of 40 CFR 61, Subpart M	40 CFR 61, 140-147	2.11, 2.16
2.17	Chemical accident prevention	Compliance with 40 CFR 68 when applicable	40 CFR 68	2.11, 2.17
2.18	Recycling and emissions reduction	Compliance with 40 CFR 82 when applicable	40 CFR 82, Subpart F	2.11, 2.18
2.19	National Emission Standard for Aerospace Manufacturing and Rework Facilities	Compliance with 40 CFR 63, Subpart GG when applicable	40 CFR 63.2, and 40 CFR 63, Subpart GG	2.11, 2.19

Fugitive Dust

- 2.1 All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651.
[IDAPA 58.01.01.650-651, 5/1/94]
- 2.2 The permittee shall monitor and maintain records of the frequency and the method(s) used (e.g., water, chemical dust suppressants) to reasonably control fugitive dust emissions.
[IDAPA 58.01.01.322.06, 07, 5/1/94]

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- 2.3 The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
[IDAPA 58.01.01.322.06, 07, 5/1/94]
- 2.4 The permittee shall conduct a quarterly (i.e., from November 1 to January 31, from February 1 to April 30, from May 1 to July 31, and from August 1 to October 31) facility-wide inspection of potential sources of fugitive dust emissions, during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive dust emissions are effective. If fugitive dust emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each fugitive dust emissions inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive dust emissions, and the date the corrective action was taken.
[IDAPA 58.01.01.322.06, 07, 5/1/94]

Odors

- 2.5 The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.
[IDAPA 58.01.01.775-776 (state only), 5/1/94]
- 2.6 The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
[IDAPA 58.01.01.322.06, 07 (state-only), 5/1/94]

Visible Emissions

- 2.7 The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.
[IDAPA 58.01.01.625, 4/5/00; PTC No. P-060068, 5/24/07]
- 2.8 The permittee shall conduct a quarterly (i.e., from November 1 to January 31, from February 1 to April 30, from May 1 to July 31, and from August 1 to October 31) facility-wide inspection of potential sources of visible emissions, during daylight hours and under normal operating conditions. Sources that are monitored using a continuous opacity monitoring system (COMS) are not required to comply with this permit condition. The inspection shall consist of a see/no see evaluation for each potential source of

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visible emissions. If any visible emissions are present from any point of emission, the permittee shall either

a) take appropriate corrective action as expeditiously as practicable to eliminate the visible emissions. Within 24 hours of the initial see/no see evaluation and after the corrective action, the permittee shall conduct a see/no see evaluation of the emissions point in question. If the visible emissions are not eliminated, the permittee shall comply with b).

or

b) perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20%, as measured using Method 9, for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in its annual compliance certification and in accordance with IDAPA 58.01.01.130-136.

The permittee shall maintain records of the results of each visible emission inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00; PTC No. P-060068, 5/24/07]

Excess Emissions

Excess Emissions - General

- 2.9 The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions. The provisions of IDAPA 58.01.01.130-136 shall govern in the event of conflicts between Permit Condition 2.9 and the regulations of IDAPA 58.01.01.130-136.
- 2.9.1 The person responsible for or in charge of a facility during an excess emissions event shall, with all practicable speed, initiate and complete appropriate and reasonable action to correct the conditions causing the excess emissions event; to reduce the frequency of occurrence of such events; to minimize the amount by which the emission standard is exceeded; and shall, as provided below or upon request of DEQ, submit a full report of such occurrence, including a statement of all known causes, and of the scheduling and nature of the actions to be taken.

[IDAPA 58.01.01.132, 4/5/00]

Excess Emissions – Startup, Shutdown, Scheduled Maintenance

- 2.9.2 In all cases where startup, shutdown, or scheduled maintenance of any equipment or emission unit is expected to result or results in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.133.01(a) through (d), including, but not limited to, the following:

[IDAPA 58.01.01.133, 4/5/00]

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- A prohibition of any scheduled startup, shutdown, or maintenance resulting in excess emissions shall occur during any period in which an Atmospheric Stagnation Advisory or a Wood Stove Curtailment Advisory has been declared by DEQ.

[IDAPA 58.01.01.133.01.a, 3/20/97]

- Notifying DEQ of the excess emissions event as soon as reasonably possible, but no later than two hours prior to, the start of the event, unless the owner or operator demonstrates to DEQ's satisfaction that a shorter advance notice was necessary.

[IDAPA 58.01.01.133.01.b, 4/5/00]

- The owner or operator of a source of excess emissions shall report and record the information required pursuant to Permit Conditions 2.9.4 and 2.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event due to startup, shutdown, or scheduled maintenance.

[IDAPA 58.01.01.133.01.c, 3/20/97]

Excess Emissions – Upset, Breakdown, or Safety Measures

- 2.9.3 In all cases where upset or breakdown of equipment or an emissions unit, or the initiation of safety measures, results or may result in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.134.01(a) and (b) and the following:

[IDAPA 58.01.01.134, 4/5/00]

- 2.9.3.1 For all equipment or emissions units from which excess emissions result during upset or breakdown conditions, or for other situations that may necessitate the implementation of safety measures which cause excess emissions, the facility owner or operator shall comply with the following:

[IDAPA 58.01.01.134.02, 4/5/00]

- The owner or operator shall immediately undertake all appropriate measures to reduce and, to the extent possible, eliminate excess emissions resulting from the event and to minimize the impact of such excess emissions on the ambient air quality and public health.

[IDAPA 58.01.01.134.02.a, 4/5/00]

- The owner or operator shall notify DEQ of any upset, breakdown, or safety event that results in excess emissions. Such notification shall identify the time, specific location, equipment or emissions unit involved, and (to the extent known) the cause(s) of the occurrence. The notification shall be given as soon as reasonably possible, but no later than 24 hours after the event, unless the owner or operator demonstrates to DEQ's satisfaction that the longer reporting period was necessary.

[IDAPA 58.01.01.134.02.b, 4/5/00]

- The owner or operator shall report and record the information required pursuant to Permit Conditions 2.9.4 and 2.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event caused by an upset, breakdown, or safety measure.

[IDAPA 58.01.01.134.02.c, 3/20/97]

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- 2.9.3.2 During any period of excess emissions caused by upset, breakdown, or operation under facility safety measures, DEQ may require the owner or operator to immediately reduce or cease operation of the equipment or emissions unit causing the period until such time as the condition causing the excess has been corrected or brought under control. Such action by DEQ shall be taken upon consideration of the factors listed in IDAPA 58.01.01.134.03 and after consultation with the facility owner or operator.
[IDAPA 58.01.01.134.03 4/5/00]

Excess Emissions – Reporting and Recordkeeping

- 2.9.4 A written report for each excess emissions event shall be submitted to DEQ by the owner or operator no later than 15 days after the beginning of such an event. Each report shall contain the information specified in IDAPA 58.01.01.135.02.

[IDAPA 58.01.01.135.01 and 02, 3/20/97]

- 2.9.5 The owner or operator shall maintain excess emissions records at the facility for the most recent five-calendar-year period. The excess emissions records shall be made available to DEQ upon request and shall include the information requested by IDAPA 58.01.01.136.03(a) and (b) as summarized in the following:

[IDAPA 58.01.01.136.01, 02, 3/20/97; IDAPA 58.01.01.136.03, 4/5/00]

- An excess emissions log book for each emissions unit or piece of equipment containing copies of all reports that have been submitted to DEQ pursuant to IDAPA 58.01.01.135 for the particular emissions unit or equipment; and

[IDAPA 58.01.01.136.03.a, 4/5/00]

- Copies of all startup, shutdown, and scheduled maintenance procedures and upset, breakdown, or safety preventative maintenance plans that have been developed by the owner or operator in accordance with IDAPA 58.01.01.133 and 134, and facility records as necessary to demonstrate compliance with such procedures and plans.

[IDAPA 58.01.01.136.03.b, 3/20/97]

Performance Testing

- 2.10 If performance testing is required, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test or shorter time period as provided in a permit, order, consent decree, or by DEQ approval. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests such testing not be performed on weekends or state holidays.

All testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, prior to conducting any performance test, the permittee is encouraged to submit in writing to DEQ, at least 30 days in advance, the following for approval:

- The type of method to be used
- Any extenuating or unusual circumstances regarding the proposed test

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- The proposed schedule for conducting and reporting the test

The permittee shall submit a compliance test report for the respective test to DEQ within 30 days following the date in which a compliance test required by this permit is concluded. The compliance test report shall include all process operating data collected during the test period as well as the test results, raw test data, and associated documentation, including any approved test protocol.

The proposed test date(s), test date rescheduling notice(s), compliance test report, and all other correspondence shall be sent to the following address:

Air Quality Permit Compliance
Department of Environmental Quality
Boise Regional Office
1445 N. Orchard
Boise, ID 83706
Phone: (208) 373-0550 Fax: (208) 373-0287

[IDAPA 58.01.01.157, 4/5/00; IDAPA 58.01.01.322.06, 08.a, 09, 5/1/94]

Monitoring and Recordkeeping

- 2.11 The permittee shall maintain sufficient records to assure compliance with all of the terms and conditions of this operating permit. Records of monitoring information shall include, but not be limited to, the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.322.07, 5/1/94]

Reports and Certifications

- 2.12 All periodic reports and certifications required by this permit shall be submitted to DEQ within 30 days of the end of each specified reporting period. Excess emissions reports and notifications shall be submitted in accordance with IDAPA 58.01.01.130-136. Reports, certifications, and notifications shall be submitted to:

Air Quality Permit Compliance
Department of Environmental Quality
Boise Regional Office
1445 N. Orchard
Boise, ID 83706-2239
Phone: (208) 373-0550 Fax: (208) 373-0287

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The periodic compliance certification required by General Provision 21 shall also be submitted within 30 days of the end of the specified reporting period to:

EPA Region 10
Air Operating Permits, OAQ-107
1200 Sixth Ave.
Seattle, WA 98101

[IDAPA 58.01.01.322.08, 11, 5/1/94]

Fuel-Burning Equipment

- 2.13 The permittee shall not discharge PM to the atmosphere from any fuel-burning equipment in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas, and 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid.

[IDAPA 58.01.01.676-677, 5/1/94; PTC No. P-060068, 5/24/07]

Sulfur Content

- 2.14 The permittee shall not sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:
- ASTM Grade 1 fuel oil - 0.3% by weight.
 - ASTM Grade 2 fuel oil - 0.5% by weight.

[IDAPA 58.01.01.728, 5/1/94; PTC No. P-060068, 5/24/07]

- 2.14.1 The permittee shall not sell, distribute, use, or make available for use, any coal containing greater than 1% sulfur by weight.

[IDAPA 58.01.01.729, 5/1/94]

- 2.14.2 The permittee shall maintain documentation of supplier verification of distillate fuel oil content on an as-received basis.

[IDAPA 58.01.01.322.06, 5/1/94]

Open Burning

- 2.15 The permittee shall comply with the *Rules for Control of Open Burning*, IDAPA 58.01.01.600-616.

[IDAPA 58.01.01.600-616, 3/30/07]

Renovation/Demolition

- 2.16 The permittee shall comply with all applicable portions of 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility.

[40 CFR 61, Subpart M]

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Regulated Substances for Accidental Release Prevention

- 2.17 An owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, shall comply with the requirements of the Chemical Accident Prevention Provisions at 40 CFR 68 no later than the latest of the following dates:
- Three years after the date on which a regulated substance presents above a threshold quantity is first listed under 40 CFR 68.130.
 - The date on which a regulated substance is first present above a threshold quantity in a process.

Recycling and Emissions Reductions

- 2.18 The permittee shall comply with applicable standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, Recycling and Emissions Reduction.

[40 CFR 82, Subpart F]

National Emissions Standard for Aerospace Manufacturing and Rework Facilities

- 2.19 The permittee shall submit an emission inventory of all hazardous air pollutants emitted by all affected stationary sources, as defined by 40 CFR 63.741.c, that are located in the contiguous area under the permittee's common control. This emission inventory to include speciation of hazardous air pollutants must be submitted in accordance with Permit Condition 2.12, and shall be used to demonstrate compliance to maintain synthetic minor status regarding 40 CFR 63, Subpart GG.

[40 CFR 63, Subpart GG]

National Emission Standards for Hazardous Air Pollutants for Source Categories

- 2.20 Major source means any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants, unless the Administrator establishes a lesser quantity, or in the case of radionuclides, different criteria from those specified in this sentence.

[40 CFR 63.2, Subpart A – General Provisions – Definitions]

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3. EMISSIONS UNIT GROUP 1: HOSPITAL BOILERS

Summary Description

The following is a narrative description of the hospital boilers regulated in this Tier I. This description is for informational purposes only.

Mountain Home Air Force Base (MHAFB) operates three dual-fuel-fired boilers (Kewanee boilers) for heating and other needs at the base hospital. Each boiler is rated at 5.231 MMBtu/hr, and can combust natural gas or distillate fuel. The Kewanee boilers vent emissions through a common stack. The PTC issued to MHAFB for the boilers limit the amount of time when the boilers can combust distillate fuel. No operating limit applies when the boilers combust natural gas.

Mountain Home Air Force Base also operates one dual-fuel-fired Hurst boiler for heating and other needs at the base hospital. The Hurst boiler is rated at 1.05 MMBtu/hr, and can combust natural gas or distillate fuel. The PTC issued to MHAFB for the boiler limits the amount of time when the boiler can combust distillate fuel. No operating limit applies when the boilers combust natural gas.

Table 3.1 lists the device(s) used to control emissions from the hospital boilers.

Table 3.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Emissions Units	Emissions Control Device
Boilers Nos. 1-3 (Kewanee Boilers)	None
Hurst Boiler	None

Table 3.2 contains a summary of the requirements that apply to the hospital boilers.

Table 3.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
3.1	SO ₂	2.1 T/yr	PTC No. P-060068	3.2, 3.3, 3.4, 2.11, 2.14, 2.14.1, 2.14.2
2.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	PTC No. P-060068; IDAPA 58.01.01.625	2.8, 2.11
2.13	Fuel-burning equipment, grain loading standard	Natural gas: 0.015 gr/dscf at 3% O ₂ Liquid: 0.05 gr/dscf at 3% O ₂	PTC No. P-060068 IDAPA 58.01.01.676-677	2.11, 3.2
2.14	Fuel oil sulfur content	ASTM Grade 1 fuel oil – 0.3% by weight ASTM Grade 2 fuel oil – 0.5% by weight	PTC No. P-060068 IDAPA 58.01.01.728	2.14.1, 2.14.2, 2.11

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Permittee:	The United States Air Force, Mountain Home Air Force Base	Facility ID No. 039-00001
Location:	Mountain Home Air Force Base, Idaho	

Emission Limits

- 3.1 Emissions of SO₂ from the Kewanee common hospital boiler stack shall not exceed 2.1 tons per any consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

Operating Requirements

- 3.2 The only fuels allowed to be combusted in the hospital boilers are the following:

- Natural gas
- Distillate fuel oil (ASTM Grade 1 fuel oil; ASTM Grade 2 fuel oil)

[PTC No. P-060068, 5/24/07]

- 3.3 The permittee shall not operate any hospital boiler for more than 500 hours per any consecutive 12-month period (hr/yr) when fueled by distillate fuel.

[PTC No. P-060068, 5/24/07]

Monitoring and Recordkeeping Requirements

- 3.4 The permittee shall monitor and record the following information and retain records of this information onsite for the most recent five-year period and shall be made available to DEQ representatives upon request.

- The annual hours of operation of each hospital boiler when combusting either ASTM Grade 1 or ASTM Grade 2 fuel oils. Annual hours of operation shall be determined by summing daily hours of operation monthly, and then summing monthly hours of operation over the previous consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: T1-2007.0041		
Permittee:	The United States Air Force, Mountain Home Air Force Base	Facility ID No. 039-00001
Location:	Mountain Home Air Force Base, Idaho	

4. EMISSIONS UNIT GROUP 2: JET ENGINE TESTING – HUSH HOUSE I, BUILDING 1344, AND HUSH HOUSE II, BUILDING 270

Summary Description

The following is a narrative description of the jet engine testing operations regulated in this Tier I. This description is for informational purposes only.

Mountain Home Air Force Base tests aircraft engines as required by operational conditions. The engines are tested in one of two “hush-houses”, which were constructed to minimize the noise from engine test operations. The stack has numerous baffles to dissipate the sound energy. Engines are removed from aircraft and transported to one of the hush houses, affixed to a test stand, and then adjusted and/or repaired. Upon completion of the adjustments and repairs, the engine is test fired at idle, approach, intermediate, military and/or afterburner power settings for a short time period. Each criteria pollutant has an individual emissions rate when operated at each power setting.

Table 4.1 lists the device(s) used to control jet engine testing emissions.

Table 4.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Emissions Units	Emissions Control Device
Hush House No. 1	None
Hush House No. 2	None

Table 4.2 contains a summary of the requirements that apply to both hush houses.

Table 4.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
4.1	PM, PM ₁₀ , SO ₂ , NO _x , CO, and VOC	Ton per year limits	PTC No. P-060068	4.2, 4.3, 4.4, 4.5, 2.11
2.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	PTC No. P-060068, IDAPA 58.01.01.625	2.8, 2.11

Emissions Limits

- 4.1 Particulate matter, PM₁₀, SO₂, NO_x, CO, and VOC emissions from the Hush House I and II augmentor tubes shall not exceed any corresponding emissions rate limit listed in Table 4.3 below.

AIR QUALITY TIER I OPERATING PERMIT NUMBER: T1-2007.0041**Permittee:** The United States Air Force, Mountain Home Air Force Base**Facility ID No.** 039-00001**Location:** Mountain Home Air Force Base, Idaho**Table 4.3 ANNUAL HUSH HOUSE EMISSION RATE LIMITS***

Source Description	PM	PM ₁₀	SO ₂	NO _x	VOC	CO
	T/yr	T/yr	T/yr	T/yr	T/yr	T/yr
Hush Houses I and II combined	4.0	4.0	1.5	85	13	63

*As determined by multiplying the actual or allowable (if actual is not available) pound-per-hour rate by the hours per year that the allowable process(es) may operate, or by actual annual production rates.

[PTC No. P-060068, 5/24/07]***Operating Requirements***

- 4.2 The permittee shall not operate the stationary engines for more than 690 hours per any consecutive 12-month period.

Testing of stationary engines in the military power setting is limited to 103.5 hours per any consecutive 12-month period.

Testing of stationary engines in the afterburner power setting is limited to 75.9 hours per any consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

- 4.3 Any aircraft engine may be tested in Hush Houses I and II.

[PTC No. P-060068, 5/24/07]

- 4.4 All stationary engines must be tested inside a hush house.

[PTC No. P-060068, 5/24/07]***Monitoring and Recordkeeping Requirements***

- 4.5 The permittee shall monitor and record the operating hours and power settings of stationary jet engines on a monthly and annual basis. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

[PTC No. P-060068, 5/24/07]

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5. EMISSIONS UNIT GROUP 3: AIRCRAFT AND AIRCRAFT PARTS SURFACE COATING SPRAY BOOTHS - BUILDING 1330

Summary Description

The following is a narrative description of the corrosion control units regulated in this Tier I. This description is for informational purposes only.

The corrosion control treating process consists of surface preparation and painting aircraft and aircraft parts in one of two paint booths. Aircraft and some parts are treated in the large paint booth (LPB-1330), and parts are painted in the small paint booth (SPB-1330). The items to be treated are first cleaned with solvents, then painted using high-volume, low pressure (HVLP) paint spray guns. The painting equipment is cleaned using solvents after use. Both paint booths exhaust through particulate filters that have a manufacturer-rated efficiency of 97%. The large paint booth also exhausts through a carbon adsorption filter, which has a manufacturer-rated efficiency of 90% for VOC emissions. The underlying PTC limits the amount of paint and solvent used on a 24-hour and annual basis. Also, the amount of paint used containing HDI (CAS No. 822-06-0; Hexamethylene Diisocyanate) is limited daily.

Table 5.1 lists the device(s) used to control spray paint coating emissions.

Table 5.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Emissions Units	Emissions Control Device
LPB 1330	PM filters, carbon adsorption filter
SPB 1330	PM filters

Table 5.2 contains a summary of the requirements that apply to the two paint booths.

Table 5.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
2.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	PTC No. P-060068 IDAPA 58.01.01.625	2.8, 5.5, 5.6, 5.9, 5.11, 2.11
5.1	PM	Process weight	PTC No. P-060068 IDAPA 58.01.01.701	5.5, 5.6, 2.11

Emission Limits

- 5.1 No person shall discharge to the atmosphere from any source operating on or after October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emission from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

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Permittee:	The United States Air Force, Mountain Home Air Force Base	Facility ID No. 039-00001
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- a. If PW is less than 9,250 lb/hr,
- $$E=0.045(PW)^{0.6}$$
- b. If PW is equal to or greater than 9,250 lb/hr,
- $$E=1.10(PW)^{0.25}$$

[PTC No. P-060068, 5/24/07]

Operating Requirements

5.2 LPB-1330 Throughput Limit

The maximum throughput of all coatings and solvents in the aircraft painting booth (LPB-1330) shall not exceed 684 gal/day or 1,250 gallons per any consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

5.3 SPB-1330 Throughput Limits

The maximum throughput of coatings and solvents in the aircraft parts painting booth (SPB-1330) shall not exceed 140 gal/day or 350 gallons per any consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

5.4 Hexamethylene Diisocyanate (HDI)

The maximum daily throughput of materials containing not more than 1% by weight HDI (CAS No. 822-6-0) shall be limited to the quantities listed in the following tables. The maximum daily throughput of materials containing in excess of 1% by weight HDI (CAS No. 822-06-0) shall be determined on a case-by-case basis.

Aircraft and Aircraft Parts Surface Coating Spray Booths No More than 1% HDI (CAS No. 822-06-0) Containing Material Throughput Limitations

Table 5.3 LPB-1330 THROUGHPUT LIMITS

HDI Upper Limit	Density Range		Calculated Throughput Limit
	Lower	Upper	
C (wt%)	ρ (lb/gal)	ρ (lb/gal)	Q (gal/day)
1.0%	< 8.0	8.0	431
1.0%	8.0	10.0	345
1.0%	10.0	12.0	288
1.0%	12.0	14.0	246
1.0%	14.0	16.0	216

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Table 5.4 SPB-1330 THROUGHPUT LIMITS

HDI Upper Limit	Density Range		Calculated Throughput Limit
	Lower	Upper	
C (wt%)	ρ (lb/gal)	ρ (lb/gal)	Q (gal/day)
1.0%	<8.0	8.0	32
1.0%	8.0	10.0	25
1.0%	10.0	12.0	21
1.0%	12.0	14.0	18
1.0%	14.0	16.0	16

[PTC No. P-060068, 5/24/07]

5.5 **Maintain Efficiency of the Booth**

The permittee shall conduct inspections of the LPB-1330 particulate-matter filtration system, the LPB-1330 VOC adsorption system, and the SPB-1330 particulate-matter filtration system on days the paint booths are in operation. The filtration systems shall be maintained in accordance with manufacturer specifications and the filtration system Operations and Maintenance (O&M) manual.

[PTC No. P-060068, 5/24/07]

5.6 **Filtration System**

The pressure drop across the LPB-1330 and SPB-1330 particulate-matter filtration systems shall be maintained within the manufacturer and O&M manual specifications.

[PTC No. P-060068, 5/24/07]

5.7 **Spray Paint Guns**

The permittee shall use HVLP spray paint guns or equivalent low-emissions spray guns for bulk-paint applications.

[PTC No. P-060068, 5/24/07]

Monitoring and Recordkeeping Requirements

5.8 **Throughput Monitoring**

The permittee shall monitor and record the throughput (type and amount) of all coatings and solvents applied in painting booth LPB-1330 and painting booth SPB-1330 on days of application. Throughput shall be recorded in gallons per day (gal/day) and gallons per any consecutive 12-month period. The consecutive 12-month period throughput shall be calculated monthly. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

[PTC No. P-060068, 5/24/07]

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5.9 **Filtration System Inspection and Maintenance**

The permittee shall maintain records of all inspections and maintenance performed on the LPB-1330 particulate-matter filtration system, the LPB-1330 VOC adsorption system, and the SPB-1330 particulate-matter filtration system. The records shall include, but are not limited to, the date of the inspection and/or maintenance performed, the relative condition of the filter pads, and the type of maintenance performed (e.g., replacement of pads, etc.). A compilation of the most recent five years of inspection and maintenance records shall be kept onsite and shall be made available to DEQ representatives upon request.

[PTC No. P-060068, 5/24/07]

5.10 **Monitoring of HDI-Containing Materials**

The permittee shall record the days of application for all materials used in the booths that contain quantifiable amounts of HDI. The records shall contain, but are not limited to, the following information: the name and identification number of each HDI-containing product used, its content of HDI in percent by weight (wt%), the density of each HDI-containing product in pounds per gallon (lb/gal), throughput calculations for materials containing more than 1% by weight HDI, and the amount used in gallons of each product. A compilation of the most recent five years of records shall be kept onsite and shall be made available to DEQ representatives upon request.

[PTC No. P-060068, 5/24/07]

5.11 **Operations and Maintenance Manual**

The permittee shall have developed an O&M manual for the LPB-1330 particulate-matter filtration system and VOC adsorption system, and the SPB-1330 particulate-matter filtration system. The manual shall describe the procedures that will be followed to comply with the manufacturer specifications for the air pollution control devices. This manual shall remain onsite at all times and shall be made available to DEQ representatives upon request.

[PTC No. P-060068, 5/24/07]

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Location:	Mountain Home Air Force Base, Idaho	

6. EMISSIONS UNIT GROUP 4: FLIGHT LINE AREA SPRAY PAINTING

Summary Description

The following is a narrative description of the flight line spray painting operations regulated in this Tier I. This description is for informational purposes only.

Mountain Home Air Force Base occasionally requires that open-air spray painting operations be conducted in the flight line area. This area includes, but is not limited to, aircraft ramps, aprons, open hangers, and static display aircraft. The coatings are applied using HVLP spray equipment.

Table 6.1 lists the device(s) used to control flight line area spray painting emissions.

TABLE 6.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Emissions Unit	Emissions Control Device
Spray painting	HVLP spray guns

Table 6.2 contains a summary of the requirements that apply to the flight line area spray painting operations.

Table 6.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
6.1	VOC	1.5 T/yr	PTC No P-060068	6.2 – 6.4

Emission Limits

6.1 VOC Emissions limits

The VOC emissions from open-air spray painting operations in the flight line area, which includes, but is not limited to, aircraft ramps, aprons, open hangers, and static display aircraft on the air force base, shall not exceed 1.5 tons per any consecutive 12-month period (T/yr).

[PTC No. P-060068, 5/24/07]

Operating Requirements

6.2 Paint Throughput Limit

The maximum throughput of all coatings and solvents applied in open-air spray painting operations in the flight line area shall not exceed 16.1 gal/day, nor shall it exceed 300 gallons per any consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

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Permittee:	The United States Air Force, Mountain Home Air Force Base	Facility ID No. 039-00001
Location:	Mountain Home Air Force Base, Idaho	

6.3 **Spray Paint Guns**

The permittee shall use HVLP spray paint guns or equivalent low-emissions spray guns for bulk paint applications.

[PTC No. P-060068, 5/24/07]

Monitoring and Recordkeeping Requirements

6.4 **Throughput Monitoring**

6.4.1 The permittee shall monitor and record the throughput (type and amount) of all coatings and solvents applied in open-air spray painting operations in the flight line area.

6.4.2 Throughput shall be recorded in gallons per day (gal/day) and gallons per any consecutive 12-month period. The consecutive 12-month period throughput shall be calculated monthly.

6.4.3 A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

[PTC No. P-060068, 5/24/07]

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Permittee:	The United States Air Force, Mountain Home Air Force Base	Facility ID No. 039-00001
Location:	Mountain Home Air Force Base, Idaho	

7. EMISSIONS UNIT GROUP 5: VEHICLE SPRAY PAINT BOOTH

Summary Description

The following is a narrative description of the vehicle spray paint booth regulated in this Tier I. This description is for informational purposes only.

Building 1100 contains a vehicle spray paint booth that is used to paint base vehicles (trucks, buses, etc.) and parts as needed.

Table 7.1 lists the control device(s) used to control vehicle spray paint booth emissions.

Table 7.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Emissions Unit	Emissions Control Device
Vehicle spray paint booth	Particulate filters

Table 7.2 contains a summary of the requirements that apply to the vehicle spray paint booth.

Table 7.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
7.1	PM	Process weight	PTC No. P-060068 IDAPA 58.01.01.701	7.4, 7.5, 7.6, 7.8, 2.11
7.2	VOC	4 T/yr	PTC No. P-060068	7.3, 7.7, 2.11
2.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	PTC No. P-060068 IDAPA 58.01.01.625	7.4, 7.5, 7.6, 7.8, 2.11

Emission Limits

- 7.1 No person shall discharge to the atmosphere from any source operating on or after October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emission from the entire source in pounds per hour, and PW is the process weight in pounds per hour:

- a. If PW is less than 9,250 lb/hr,

$$E = 0.045 (PW)^{0.60}$$

- b. If PW is equal to or greater than 9,250 lb/hr,

$$E = 1.10 (PW)^{0.25}$$

[PTC No. P-060068, 5/24/07]

- 7.2 Volatile organic compound emissions from the vehicle spray paint booth stack shall not exceed 4 T/yr.

[PTC No. P-060068, 5/24/07]

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Permittee:	The United States Air Force, Mountain Home Air Force Base	Facility ID No. 039-00001
Location:	Mountain Home Air Force Base, Idaho	

Operating Requirements

7.3 Paint Throughput Limit

The maximum throughput of all coatings and solvents applied in the spray paint booth shall not exceed 300 gallons per any consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

7.4 Filtration System

The pressure drop across the spray paint booth filters shall be maintained within manufacturer specifications.

[PTC No. P-060068, 5/24/07]

7.5 Maintain Efficiency of the Booth

The permittee shall conduct inspections of the particulate-matter filtration system on days the paint booth is in operation. The filtration system shall be maintained in accordance with manufacturer specifications.

[PTC No. P-060068, 5/24/07]

7.6 Spray Paint Guns

The permittee shall use HVLP spray paint guns or equivalent low-emissions spray guns for bulk-paint applications.

[PTC No. P-060068, 5/24/07]

Monitoring and Recordkeeping Requirements

7.7 Throughput Monitoring

7.7.1 The permittee shall monitor and record the throughput (type and amount) of all coatings and solvents, applied in the paint booth on a daily and annual basis.

7.7.2 Throughput shall be recorded in gallons per day (gal/day) and gallons per any consecutive 12-month period. The consecutive 12-month period throughput shall be calculated monthly.

7.7.3 A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

[PTC No. P-060068, 5/24/07]

7.8 Filter System Inspection and Maintenance

The permittee shall maintain records of all inspections and maintenance performed on the particulate-matter filtration system. The records shall include, but are not limited to, the date of the inspection and/or maintenance performed, the relative condition of the filter pads, and the type of maintenance performed (e.g., replacement of pads, etc.). A compilation of the most recent five years of inspection and

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maintenance records shall be kept onsite and shall be made available to DEQ representatives upon request.

[PTC No. P-060068, 5/24/07]

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Permittee:	The United States Air Force, Mountain Home Air Force Base	Facility ID No. 039-00001
Location:	Mountain Home Air Force Base, Idaho	

8. EMISSIONS UNIT GROUP 6: BEAD-BLASTING UNIT - BUILDING 1330

Summary Description

The following is a narrative description of the bead-blasting unit regulated in this Tier I. This description is for informational purposes only.

A plastic media bead-blast unit installed in Building 1330 is used to strip paint from small components such as fuel tanks and bomb racks. The booth vents through a particulate filter rated at 99.9% efficient for removing particles one micron or greater and 100% efficient for particles two microns or greater.

Table 8.1 lists the device(s) used to control Building 1330 bead-blasting emissions.

Table 8.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Emissions Unit	Emissions Control Device
Bead-blast booth	Dust collector

Table 8.2 contains a summary of the requirements that apply to the bead blast unit.

Table 8.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
8.1	Cr ⁺⁶	0.137 lb/yr	PTC No. P-060068	8.3, 8.4, 8.5, 8.6, 8.7, 2.11
8.2	PM	process weight	PTC No. P-060068 IDAPA 58.01.01.701	8.5, 2.11
2.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	PTC No. P-060068 IDAPA 58.01.01.625	2.8, 2.11

Emission Limits

- 8.1 Hexavalent chromium emissions reported as Cr⁺⁶ from the bead blast unit vent shall not exceed 0.137 pounds in any consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

- 8.2 No person shall discharge to the atmosphere from any source operating on or after October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emission from the entire source in pounds per hour, and PW is the process weight in pounds per hour,

- a. If PW is less than 9,250 lb/hr,

$$E=0.045(PW)^{0.6}$$

- b. If PW is equal to or greater than 9,250 lb/hr,

$$E=1.10(PW)^{0.25}$$

[IDAPA 58.01.01.701, 4/5/00]

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Permittee:	The United States Air Force, Mountain Home Air Force Base	Facility ID No. 039-00001
Location:	Mountain Home Air Force Base, Idaho	

Operating Requirements

8.3 Operating Hours Limit

The permittee shall not operate the bead-blast unit for more than 4,500 hours per any consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

8.4 Hexavalent Chromium Weight Percent

The annual average weight percent of Cr⁺⁶ shall not exceed 1.075% of the PM controlled by the dust collector assembly per any consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

8.5 Pollution Control Equipment

The permittee shall operate and maintain the dust collector assembly in accordance with manufacturer specifications.

[PTC No. P-060068, 5/24/07]

Monitoring and Recordkeeping Requirements

8.6 Operating Hours

The permittee shall monitor and record the beat-blast unit hours of operation on a monthly and annual basis. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

[PTC No. P-060068, 5/24/07]

8.7 Hexavalent Chromium Sampling

The permittee shall monitor and record the Cr⁺⁶ weight percent of the PM collected by the dust collector assembly. The material shall be sampled and analyzed prior to disposal. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

[PTC No. P-060068, 5/24/07]

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Location:	Mountain Home Air Force Base, Idaho	

9. EMISSIONS UNIT GROUP 7: A GROUP OF FOUR BARRIER FLIGHT LINE GENERATORS

Summary Description

There is a group of four barrier flight line generators. Each generator is fueled by gasoline and has an engine rated capacity of 65.9 horsepower.

Table 9.1 describes the devices used to control emissions from the group of four barrier flight line generators.

Table 9.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Emissions Unit(s) / Process(es)	Emissions Control Device
Four barrier flight line generators	None

Table 9.2 contains only a summary of the requirements that apply to the group of four barrier flight line generators. Specific permit requirements are listed below Table 9.2.

Table 9.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Operating and Monitoring and Recordkeeping Requirements
9.1	PM ₁₀	12 lb/calendar year	PTC No. P-060048	9.2, 9.3, 9.4, 2.11
2.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	PTC No. P-060048 IDAPA 58.01.01.625	2.8, 2.11

Permit Limits / Standard Summary

9.1 Emissions Limits

The PM₁₀ emissions from each barrier flight line generator exhaust vent/stack shall not exceed 12 pounds per calendar year.

[PTC No. P-060048, 5/14/07]

Operating Requirements

9.2 Operations

- The permittee shall operate and maintain the four barrier flight line generators in accordance with the manufacturer's recommendations and specifications.
- The manufacturer's recommendations and specifications shall remain on site at all times and shall be made available to DEQ representatives upon request.

[PTC No. P-060048, 5/14/07]

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Permittee:	The United States Air Force, Mountain Home Air Force Base	Facility ID No. 039-00001
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9.3 Operating Hours

Each barrier flight line generator shall not operate more than 250 hours per any consecutive 12-month period.

[PTC No. P-060048, 5/14/07]

Monitoring and Recordkeeping Requirements

9.4 Operating Hours

The permittee shall have installed, calibrated, operated, and maintained hour meters to record operating hours of each generator, in accordance with manufacturer's specifications and recommendations.

The permittee shall record the operating hours for each barrier flight line generator monthly.

The permittee shall record the total annual operating hours for each barrier flight line generator to demonstrate compliance with Permit Condition 9.3. Annual operating hour shall be determined by summing monthly operating hours over the previous consecutive 12-month period. Records of this information shall be kept on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[PTC No. P-060048, 5/14/07]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: T1-2007.0041		
Permittee:	The United States Air Force, Mountain Home Air Force Base	Facility ID No. 039-00001
Location:	Mountain Home Air Force Base, Idaho	

10. EMISSIONS UNIT GROUP 8: EMERGENCY GENERATORS

Summary Description

The three emergency generators provide emergency power to the base hospital in the event of a power failure.

Table 10.1 lists the device(s) used to control emissions from the emergency generators.

Table 10.1 EMERGENCY GENERATORS AND EMISSIONS CONTROL DEVICES

Emissions Units	Emissions Control Device
Distillate fuel oil-fired generators	None

Table 10.2 contains a summary of the requirements that apply to the emergency generators.

Table 10.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
10.1	SO ₂	3.1 T/yr	PTC No. P-060068	10.2, 10.3, 2.14, 10.5
10.1	NO _x	18.1 T/yr	PTC No. P-060068	10.2, 10.3, 10.5
2.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	PTC No. P-060068 IDAPA 58.01.01.625	10.4

Emissions Limits

- 10.1 The aggregate sulfur dioxide emissions and the aggregate nitrogen oxides emissions from the three emergency generator stacks shall not exceed any corresponding emissions rate limits listed in Table 10.3.

Table 10.3 EMERGENCY GENERATORS EMISSIONS LIMITS

Source Description	SO ₂	NO _x
	T/yr	T/yr
Total generator emissions ^a	3.1	18.1

^a Total generator emissions are the aggregated emissions from the three emergency generators.

[PTC No. P-060068, 5/24/07]

Operating Requirements

- 10.2 The only fuels allowed to be combusted in the emergency generators are the following:

- Distillate fuel oil (ASTM Grade 1 fuel oil; ASTM Grade 2 fuel oil)

[PTC No. P-060068, 5/24/07]

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- 10.3 The maximum annual hours of operation of each emergency generator shall not exceed 500 hours per consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

Monitoring and Recordkeeping Requirements

- 10.4 The permittee shall conduct a quarterly see/no see visible emissions observation on each emergency generator stack during normal operating conditions if/when they are operating. If the generators are not operating during the time of the scheduled quarterly observation, the permittee shall indicate such and record all other relevant information in accordance with Permit Condition 2.11. If the generators are operating during the quarterly observation and any visible emissions are present at the time of the observation, the permittee shall conduct an opacity visible emissions observation in accordance with IDAPA 58.01.01.625.04 while the generator is operating. If it is determined in accordance with IDAPA 58.01.01.625 that opacity is greater than 20%, the permittee shall take all necessary corrective action and report excess emissions in accordance with IDAPA 58.01.01.130-136. The permittee shall record the results of each visible emission observation, and corrective action taken, if any, and maintain the records in accordance with Permit Condition 2.11.

[PTC No. P-060068, 5/24/07]

- 10.5 The permittee shall monitor and record the following information to demonstrate compliance with Permit Condition 10.3. Records shall be maintained in accordance with Permit Condition 2.11.
- The annual hours of operation of each emergency generator. Annual hours of operation shall be determined by summing daily hours of operation monthly, and then summing monthly hours of operation over the previous consecutive 12-month period.

[PTC No. P-060068, 5/24/07]

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11. EMISSIONS UNIT GROUP 9: MISCELLANEOUS SOURCES

Summary Description

The following is a narrative description of the miscellaneous sources regulated in this Tier I. This description is for informational purposes only.

Several air pollution sources exist at MHAFB, which are exempt from obtaining a PTC in accordance with IDAPA 58.01.01.220-223. The source is exempt from obtaining a PTC only if operated in accordance with the information on which the exemption was based. The miscellaneous sources consist of, but are not limited to, turbine aerospace ground equipment (turbine AGE), PB-198 (B-1 hanger), fire training pit, ordinance disposal, and all fixed internal combustion generators and pumps. The generators and pumps range in size from 5 to 1609 horsepower.

Table 9.1 lists the control device(s) used to control emissions.

Table 11.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Emissions Units	Emissions Control Device
PB-198	Particulate and HEPA filter, VOC carbon absorption

Generally, applicable requirements for all sources previously determined to be exempt from PTC requirements are contained in the Facility-wide Permit Conditions.

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12. EMISSIONS UNIT GROUP 10: EMERGENCY DIESEL GENERATORS SUBJECT TO 40 CFR 60 SUBPART IIII

Summary Description

The following is a narrative description of two stationary emergency diesel generators regulated in this Tier I. This description is for informational purposes only.

Currently two MHAFB stationary emergency diesel generators are subject to 40 CFR 60 Subpart IIII. One is used at Rapcon facility. The other one is for Power Pro – Lighting Vault. The specifications of these two stationary emergency diesel generators can be found in Table 1.1.

MHAFB anticipates adding additional generators in the future that will be subject to 40 CFR 60 Subpart IIII.

Table 12.1 lists the control device(s) used to control emissions.

Table 12.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Emissions Units	Emissions Control Device
Rapcon facility stationary emergency diesel generator, 250 kW	None
Power Pro – Lighting Vault stationary emergency diesel generator, 200 kW	None

40 CFR 60 Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

For Generators listed in Table 12.1

General Requirement

- 12.1 Permit conditions 12.2 through 12.11 apply to generators listed in Table 12.1, specifically, emergency diesel generator used at Rapcon facility and emergency diesel generator for Power Pro-Lighting Vault. Should there be a conflict between 40 CFR 60 Subpart IIII and the permit conditions 12.2 through 12.11, requirements in 40 CFR 60 Subpart IIII shall govern.

[40 CFR 60 Subpart IIII]

Emissions Limits

- 12.2 In accordance with 40 CFR 60.4205(b), 40 CFR 60.4202(a)(2), and 40 CFR 89.112 Table 1, each engine is subject to the following emissions standards.

Table 12.2 EMISSION STANDARDS (g/kW-hr)

NMHC + NO _x	CO	PM
4.0	3.5	0.2

[40 CFR 60.4205(b); 40 CFR 60.4202(a)(2); 40 CFR 89.112]

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12.3 In accordance with 40 CFR 60.4205(b), 40 CFR 60.4202(a)(2), and 40 CFR 89.113, each engine is subject to the following smoke emission standard.

(a) Exhaust opacity must not exceed:

- (1) 20 percent during the acceleration mode;
- (2) 15 percent during the lugging mode; and
- (3) 50 percent during the peaks in either the acceleration or lugging modes.

(b) Opacity levels are to be measured and calculated as set forth in 40 CFR part 86, subpart I.

[40 CFR 60.4205(b); 40 CFR 60.4202(a)(2); 40 CFR 89.113]

12.4 In accordance with 40 CFR 60.4206, owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in § 60.4205(b) according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

[40 CFR 60.4206]

Operating Requirements

Fuel Requirements

12.5 In accordance with 40 CFR 60.4207,

(a) Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a).

40 CFR 80.510(a) - diesel fuel is subject to the following per-gallon standards:

- (1) Sulfur content. 500 parts per million (ppm) maximum.
- (2) Cetane index or aromatic content, as follows:
 - (i) A minimum cetane index of 40; or
 - (ii) A maximum aromatic content of 35 volume percent.

(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.

40 CFR 80.510(b) - diesel fuel is subject to the following per-gallon standards:

- (1) Sulfur content.
 - (i) 15 ppm maximum for NR (non-road) diesel fuel.
 - (ii) 500 ppm maximum for LM (locomotive and marine) diesel fuel.
- (2) Cetane index or aromatic content, as follows:
 - (i) A minimum cetane index of 40; or
 - (ii) A maximum aromatic content of 35 volume percent.

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(c) Owners and operators of pre-2011 model year stationary CI ICE subject to this subpart may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of paragraphs (a) and (b) of this section beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.

(d) Does not apply to the two engines listed in Table 12.1.

(e) Stationary CI ICE that have a national security exemption under §60.4200(d) are also exempt from the fuel requirements in this section.

[40 CFR 60.4207; 40 CFR 80.510(a); 40 CFR 80.510(b); 40 CFR 80.510(e)]

Monitoring and Recordkeeping Requirements

12.6 In accordance with 40 CFR 60.4209, if you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.

[40 CFR 60.4209]

12.7 In accordance with 40 CFR 60.4209(a), if you are an owner or operator of an emergency stationary CI internal combustion engine, you must install a non-resettable hour meter prior to startup of the engine.

[40 CFR 60.4209(a)]

12.8 In accordance with 40 CFR 60.4211,

(a) if you are an owner or operator and must comply with the emission standards specified in this subpart, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. You must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

[40 CFR 60.4211(a)]

(b) Does not apply to the two engines listed in Table 12.1.

[40 CFR 60.4211(b)]

(c) if you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4205(b), you must comply by purchasing an engine certified to the emission standards in §60.4205(b), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

[40 CFR 60.4211(c)]

(d) Does not apply to the two engines listed in Table 12.1.

[40 CFR 60.4211(d)]

(e) emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines

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meeting standards under §60.4205 but not §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.

[40 CFR 60.4211(e)]

Reporting Requirements

- 12.9 In accordance with 40 CFR 60.4214, if the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. **[40 CFR 60.4214]**
- 12.10 In accordance with 40 CFR 60.4218, table 8 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

Table 12.3 Applicability of General Provisions to Subpart IIII, Specifically Apply to These Two Generators

General Provisions citation	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes	
§60.2	Definitions	Yes	Additional terms defined in §60.4219.
§60.3	Units and abbreviations	Yes	
§60.4	Address	Yes	
§60.5	Determination of construction or modification	Yes	
§60.6	Review of plans	Yes	
§60.9	Availability of information	Yes	
§60.10	State Authority	Yes	
§60.12	Circumvention	Yes	
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.19	General notification and reporting requirements	Yes	

[40 CFR 60.4218]

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Definitions Apply to MHAFB Engines Listed in Table 12.1

- 12.11 In accordance with 40 CFR 60.4219, as used in this subpart, all terms not defined herein shall have the meaning given them in the CAA and in subpart A of this part.

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is number 2 distillate oil.

Emergency stationary internal combustion engine means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc. Stationary CI ICE used to supply power to an electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines.

Maximum engine power means maximum engine power as defined in 40 CFR 1039.801.

Model year means either:

- (1) The calendar year in which the engine was originally produced, or
- (2) The annual new model production period of the engine manufacturer if it is different than the calendar year. This must include January 1 of the calendar year for which the model year is named. It may not begin before January 2 of the previous calendar year and it must end by December 31 of the named calendar year. For an engine that is converted to a stationary engine after being placed into service as a nonroad or other non-stationary engine, model year means the calendar year or new model production period in which the engine was originally produced.

Other internal combustion engine means any internal combustion engine, except combustion turbines, which is not a reciprocating internal combustion engine or rotary internal combustion engine.

Stationary internal combustion engine means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), and is not used to propel a motor vehicle or a vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

Subpart means 40 CFR part 60, subpart IIII.

Useful life means the period during which the engine is designed to properly function in terms of reliability and fuel consumption, without being remanufactured, specified as a number of hours of operation or calendar years, whichever comes first. The values for useful life for stationary CI ICE with a displacement of less than 10 liters per cylinder are given in 40 CFR 1039.101(g). The values for useful life for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder are given in 40 CFR 94.9(a).

[40 CFR 60.4219]

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For Future Generators not listed in Table 12.1

- 12.12 The permittee shall conduct a regulatory analysis of 40 CFR 60 Subpart IIII for each applicable emergency compression ignition (CI) internal combustion engine (ICE) installed. The permittee shall identify and comply with the applicable requirements specifically applying to the applicable emergency compression ignition (CI) internal combustion engine (ICE) installed.
[40 CFR 60 Subpart IIII]
- 12.13 The permittee shall maintain a list of applicable emergency compression ignition (CI) internal combustion engines (ICE) that are subject to NSPS 40 CFR 60 Subpart IIII, including the corresponding regulatory analysis required in Permit Condition 12.12. The list shall be maintain on site and shall be made available to DEQ representatives upon request.
[IDAPA 58.01.01.322.07, 5/1/94]
- 12.14 The generators on the list shall be included in the Tier I upon next renewal.
[IDAPA 58.01.01.313.03, 4/5/00]

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13. INSIGNIFICANT ACTIVITIES

Activities and emission units identified as insignificant under IDAPA 58.01.01.317.01(b) are listed in the Tier I to qualify for a permit shield.

Table 13.1 INSIGNIFICANT ACTIVITIES

Description	Insignificant Activities IDAPA 58.01.01.317.01(b)(i) Citation
<u>Fuel System/Fuel Dispensing, and Fuel Loading Racks as identified in the renewal application received March 23, 2007</u>	IDAPA 58.01.01.317.01(b)(i)(30)
<u>Above ground storage tanks</u>	
Base wide – storage tanks of 260 gallons or less	IDAPA 58.01.01.317.01(b)(i)(1) and (30)
Base wide – storage tanks of 10,000 gallons or less	IDAPA 58.01.01.317.01(b)(i)(3) and (30)
Two 1,500,000 above ground storage (AST) tanks	IDAPA 58.01.01.317.01(b)(i)(30)
<u>Underground storage tanks</u>	
Base wide – storage tanks of 10,000 gallons or less	IDAPA 58.01.01.317.01(b)(i)(3)
<u>Turbine Aerospace Ground Equipment as identified in the renewal application received March 23, 2007</u>	IDAPA 58.01.01.317.01(b)(i)(30)
<u>External combustion sources</u>	
Base wide – additional external combustion sources less than 5 mmbtu/hr	IDAPA 58.01.01.317.01(b)(i)(5)
Base wide – external combustion sources less than 0.5 mmbtu/hr	IDAPA 58.01.01.317.01(b)(i)(6)
Base wide – external combustion sources less than 1 mmbtu/hr	IDAPA 58.01.01.317.01(b)(i)(7)
<u>Internal combustion sources</u> Sources with a power rating of less than 500 hp or 373 kilowatts	IDAPA 58.01.01.317.01(b)(i)(14)
<u>Surface Coating Activities as identified in the renewal application received March 23, 2007</u>	IDAPA 58.01.01.317.01(b)(i)(17) and (30)
<u>Explosive Ordnance Disposal as identified in the renewal application received March 23, 2007</u>	IDAPA 58.01.01.317.01(b)(i)(30)
<u>Fuel Tank Repair as identified in the renewal application received March 23, 2007</u>	IDAPA 58.01.01.317.01(b)(i)(30)
<u>Waste Water Treatment Plant as identified in the renewal application received March 23, 2007</u>	IDAPA 58.01.01.317.01(b)(i)(30)
<u>Petroleum Soil Bioremediation Site as identified in the renewal application received March 23, 2007</u>	IDAPA 58.01.01.317.01(b)(i)(30)
<u>Welding as identified in the renewal application received March 23, 2007</u>	IDAPA 58.01.01.317.01(b)(i)(9)
<u>Composite Sanding Booth Activities as identified in the renewal application received March 23, 2007</u>	IDAPA 58.01.01.317.01(b)(i)(30)

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- 13.1 There are no monitoring, recordkeeping, or reporting requirements for insignificant emission units or activities beyond those required in the Facility-wide Permit Conditions.

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14. TIER I OPERATING PERMIT GENERAL PROVISIONS

General Compliance

1. The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application.
[IDAPA 58.01.01.322.15.a, 5/1/94; 40 CFR 70.6(a)(6)(i)]
2. It shall not be a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the terms and conditions of this permit.
[IDAPA 58.01.01.322.15.b, 5/1/94; 40 CFR 70.6(a)(6)(ii)]
3. Any permittee who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.
[IDAPA 58.01.01.315.01, 5/1/94; 40 CFR 70.5(b)]

Reopening

4. This permit may be revised, reopened, revoked and reissued, or terminated for cause. Cause for reopening exists under any of the circumstances listed in IDAPA 58.01.01.386. Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable in accordance with IDAPA 58.01.01.360 through 369.
[IDAPA 58.01.01.322.15.c, 5/1/94; IDAPA 58.01.01.386, 3/19/99; 40 CFR 70.7(f)(1), (2); 40 CFR 70.6(a)(6)(iii)]
5. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[IDAPA 58.01.01.322.15.d, 5/1/94; 40 CFR 70.6(a)(6)(iii)]

Property Rights

6. This permit does not convey any property rights of any sort, or any exclusive privilege.
[IDAPA 58.01.01.322.15.e, 5/1/94; 40 CFR 70.6(a)(6)(iv)]

Information Requests

7. The permittee shall furnish all information requested by DEQ, within a reasonable time, that DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
[Idaho Code §39-108; IDAPA 58.01.01.122, 4/5/00; IDAPA 58.01.01.322.15.f, 4/5/00; 40 CFR 70.6(a)(6)(v)]
8. Upon request, the permittee shall furnish to DEQ copies of records required to be kept by this permit. For information claimed to be confidential, the permittee may furnish such records along with a claim

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of confidentiality in accordance with Idaho Code §9-342A and applicable implementing regulations including IDAPA 58.01.01.128.

[IDAPA 58.01.01.322.15.g, 5/1/94; IDAPA 58.01.01.128, 4/5/00; 40 CFR 70.6(a)(6)(v)]

Severability

9. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

[IDAPA 58.01.01.322.15.h, 5/1/94; 40 CFR 70.6(a)(5)]

Changes Requiring Permit Revision or Notice

10. The permittee may not commence construction or modification of any stationary source, facility, major facility, or major modification without first obtaining all necessary permits to construct or an approval under IDAPA 58.01.01.213, or complying with IDAPA 58.01.01.220 through 223. The permittee shall comply with IDAPA 58.01.01.380 through 386 as applicable.
[IDAPA 58.01.01.200-223, 4/6/05; IDAPA 58.01.01.322.15.i, 3/19/99; IDAPA 58.01.01.380-386, 7/1/02; 40 CFR 70.4(b)(12), (14), (15), and 70.7(d), (e)]

11. Changes that are not addressed or prohibited by the Tier I operating permit require a Tier I operating permit revision if such changes are subject to any requirement under Title IV of the CAA, 42 U.S.C. Section 7651 through 7651c, or are modifications under Title I of the CAA, 42 U.S.C. Section 7401 through 7515. Administrative amendments (IDAPA 58.01.01.381), minor permit modifications (IDAPA 58.01.01.383), and significant permit modifications (IDAPA 58.01.01.382) require a revision to the Tier I operating permit. IDAPA 58.01.01.502(b)(10) changes are authorized in accordance with IDAPA 58.01.01.384. Off-permit changes and required notice are authorized in accordance with IDAPA 58.01.01.385.

[IDAPA 58.01.01.381-385, 7/1/02; IDAPA 58.01.01.209.05, 4/5/00; 40 CFR 70.4(b)(14) and (15)]

Federal and State Enforceability

12. Unless specifically identified as a “State-only” provision, all terms and conditions in this permit, including any terms and conditions designed to limit a source’s potential to emit, are enforceable: (i) by DEQ in accordance with state law; and (ii) by the United States or any other person in accordance with federal law.

[IDAPA 58.01.01.322.15.j, 5/1/94; 40 CFR 70.6(b)(1) and (2)]

13. Provisions specifically identified as a “State-only” provision are enforceable only in accordance with state law. “State-only” provisions are those that are not required under the Federal Clean Air Act or under any of its applicable requirements or those provisions adopted by the state prior to federal approval.

[Idaho Code §39-108; IDAPA 58.01.01.322.15.k, 3/23/98]

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Inspection and Entry

14. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
- Enter upon the permittee's premises where a Tier I source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
 - Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
 - Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108; IDAPA 58.01.01.322.15.I, 5/1/94; 40 CFR 70.6(c)(2)]

New Requirements During Permit Term

15. The permittee shall comply with applicable requirements that become effective during the permit term on a timely basis.

[IDAPA 58.01.01.322.10, 4/6/05; IDAPA 58.01.01.314.10.a.ii, 5/1/94; 40 CFR 70.6(c)(3) citing 70.5(c)(8)]

Fees

16. The owner or operator of a Tier I source shall pay annual registration fees to DEQ in accordance with IDAPA 58.01.01.387 through IDAPA 58.01.01.397.

[IDAPA 58.01.01.387, 4/2/03; 40 CFR 70.6(a)(7)]

Certification

17. All documents submitted to DEQ shall be certified in accordance with IDAPA 58.01.01.123 and comply with IDAPA 58.01.01.124.

[IDAPA 58.01.01.322.15.o, 5/1/94; 40 CFR 70.6(a)(3)(iii)(A); 40 CFR 70.5(d)]

Renewal

18. a. The owner or operator of a Tier I source shall submit an application to DEQ for a renewal of this permit at least six months before, but no earlier than 18 months before, the expiration date of this operating permit. To ensure that the term of the operating permit does not expire before the permit is renewed, the owner or operator is encouraged to submit a renewal application nine months prior to the date of expiration.

[IDAPA 58.01.01.313.03, 4/5/00; 40 CFR 70.5(a)(1)(iii)]

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- b. If a timely and complete application for a Tier I operating permit renewal is submitted, but DEQ fails to issue or deny the renewal permit before the end of the term of this permit, then all the terms and conditions of this permit including any permit shield that may have been granted pursuant to IDAPA 58.01.01.325 shall remain in effect until the renewal permit has been issued or denied.
[IDAPA 58.01.01.322.15.p, 5/1/94; 40 CFR 70.7(b)]

Permit Shield

19. Compliance with the terms and conditions of the Tier I operating permit, including those applicable to all alternative operating scenarios and trading scenarios, shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
- a. Such applicable requirements are included and are specifically identified in the Tier I operating permit; or
 - i. DEQ has determined that other requirements specifically identified are not applicable and all of the criteria set forth in IDAPA 58.01.01.325.01(b) have been met.
 - b. The permit shield shall apply to permit revisions made in accordance with IDAPA 58.01.01.381.04 (administrative amendments incorporating the terms of a permit to construct), IDAPA 58.01.01.382.04 (significant modifications), and IDAPA 58.01.01.384.03 (trading under an emissions cap).
 - c. Nothing in this permit shall alter or affect the following:
 - i. Any administrative authority or judicial remedy available to prevent or terminate emergencies or imminent and substantial dangers;
 - ii. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - iii. The applicable requirements of the acid rain program, consistent with 42 U.S.C. Section 7651(g)(a); and
 - iv. The ability of EPA to obtain information from a source pursuant to Section 114 of the CAA; or the ability of DEQ to obtain information from a source pursuant to Idaho Code §39-108 and IDAPA 58.01.01.122.

**[Idaho Code §39-108 and 112; IDAPA 58.01.01.122, 4/5/00;
 IDAPA 58.01.01.322.15.m, 325.01, 5/1/94; IDAPA 58.01.01.325.02, 3/19/99;
 IDAPA 58.01.01.381.04, 382.04, 383.05, 384.03, 385.03, 3/19/99; 40 CFR 70.6(f)]**

Compliance Schedule and Progress Reports

- 20.
- a. For each applicable requirement for which the source is not in compliance, the permittee shall comply with the compliance schedule incorporated in this permit.
 - b. For each applicable requirement that will become effective during the term of this permit and that provides a detailed compliance schedule, the permittee shall comply with such requirements in accordance with the detailed schedule.
 - c. For each applicable requirement that will become effective during the term of this permit that does not contain a more detailed schedule, the permittee shall meet such requirements on a timely basis.

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- d. For each applicable requirement with which the permittee is in compliance, the permittee shall continue to comply with such requirements.

[IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.9, 5/1/94; IDAPA 58.01.01.314.10, 4/5/00; 40 CFR 70.6(c)(3) and (4)]

Periodic Compliance Certification

21. The permittee shall submit compliance certifications during the term of the permit for each emissions unit to DEQ and the EPA as follows:
- a. The compliance certifications for all emissions units shall be submitted annually from November 1 October 31 or more frequently if specified by the underlying applicable requirement or elsewhere in this permit by DEQ.
 - b. The initial compliance certification for each emissions unit shall address all of the terms and conditions contained in the Tier I operating permit that are applicable to such emissions unit including emissions limitations, standards, and work practices;
 - c. The compliance certification shall be in an itemized form providing the following information (provided that the identification of applicable information may cross-reference the permit or previous reports as applicable):
 - i. The identification of each term or condition of the Tier I operating permit that is the basis of the certification;
 - ii. The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period. Such methods and other means shall include, at a minimum, the methods and means required under Subsections 322.06, 322.07, and 322.08;
 - iii. The status of compliance with the terms and conditions of the Tier I operating permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in Subsection 322.11.c.ii. above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred; and
 - iv. Such information as the Department may require to determine the compliance status of the emissions unit.
 - d. All original compliance certifications shall be submitted to DEQ and a copy of all compliance certifications shall be submitted to the EPA.

[IDAPA 58.01.01.322.11, 4/6/05; 40 CFR 70.6(c)(5)(iii) as amended, 62 Fed. Reg. 54900, 54946 (10/22/97); 40 CFR 70.6(c)(5)(iv)]

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False Statements

22. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.125, 3/23/98]

No Tampering

23. No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.126, 3/23/98]

Semiannual Monitoring Reports

24. In addition to all applicable reporting requirements identified in this permit, the permittee shall submit reports of any required monitoring at least every six months. The permittee's semiannual reporting periods shall be from November 1 to April 30 and May 1 to October 31. All instances of deviations from this operating permit's requirements must be clearly identified in the report. The semiannual reports shall be submitted to DEQ within 30 days of the end of the specified reporting period.
[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.322.08.c, 4/5/00; 40 CFR 70.6(a)(3)(iii)]

Reporting Deviations and Excess Emissions

25. The permittee shall promptly report all deviations from permit requirements including upset conditions, their probable cause, and any corrective actions or preventive measures taken. For excess emissions, the report shall be made in accordance with IDAPA 58.01.01.130-136. For all other deviations, the report shall be made in accordance with IDAPA 58.01.01.322.08.c, unless otherwise specified in this permit.
[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.135, 4/5/00; 40 CFR 70.6(a)(3)(iii)]

Permit Revision Not Required

26. No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit.
[IDAPA 58.01.01.322.05.b, 4/5/00; 40 CFR 70.6(a)(8)]

Emergency

27. In accordance with IDAPA 58.01.01.332, an "emergency" as defined in IDAPA 58.01.01.008, constitutes an affirmative defense to an action brought for noncompliance with such technology-based emissions limitation if the conditions of IDAPA 58.01.01.332.02 are met.
[IDAPA 58.01.01.332.01, 4/5/00; 40 CFR 70.6(g)]

National Security Emergency

28. Since MHAFFB is a military combat facility, at any time, MHAFFB may be ordered to increase its level of readiness related to a national security emergency. Such an emergency may cause a surge condition at MHAFFB that could result in emissions greater than specified in this permit and/or make it impractical to meet one or more of the permit terms. In the event that the Responsible Official determines that a surge condition exists, the Idaho State Air Quality Program Administrator shall be notified within five

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business days after cessation of a surge condition occurring and within five business days after cessation of such a condition. Within 45 days after cessation of a surge condition, the Responsible Official shall submit a report to the Idaho State Air Quality Program Administrator detailing the permit conditions (if any) could not be met during the surge condition.

[IDAPA 58.01.01.130-136, 415/00; IDAPA 58.01.01.322.08, 511/94]